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Partition functions for supersymmetric black holes

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UvA Dissertation

Faculty of Science

This dissertation presents recent discoveries on partition functions for four-dimensional supersymmetric black holes. These partition functions are important tools to explain the entropy of black holes from a microscopic point of view within string theory and M-theory. The results are applied to two central research topics in modern theoretical physics, namely (1) the correspondence between the physics (including gravity) within an Anti-de Sitter space and conformal field theory, and (2) the relation between black holes and topological strings.

Jan Manschot (1980) studied Applied Physics at Delft University of Technology. In 2004, he started his Ph.D. research at the Institute for Theoretical Physics of the University of Amsterdam.



Partition Functions for Supersymmetric Black Holes
Jan Manschot

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